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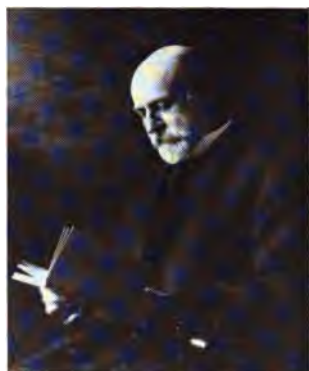
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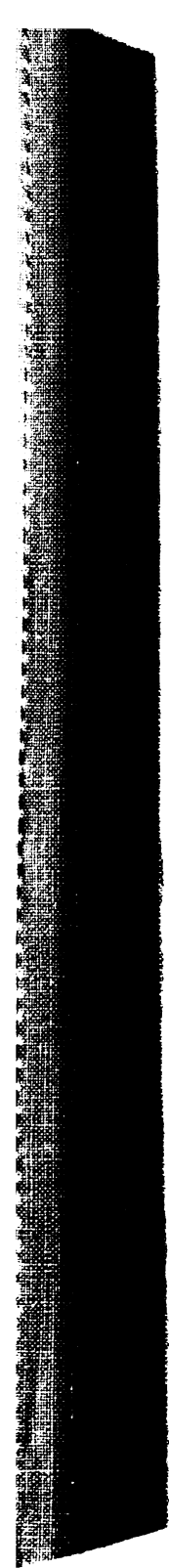
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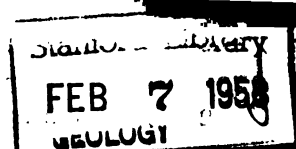


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The Institution of Mining and Metallurgy.

Bulletin No. 9.

JUNE 15TH, 1905.

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PUBLISHED BY

The Institution of Mining and Metallurgy,

SALISBURY HOUSE, LONDON, E.C.

INTRODUCTORY NOTICE.

This BULLETIN is issued to the members of the Institution of Mining and Metallurgy with the object of putting them in possession of information of current interest. In addition to this, the Council issue before each Ordinary General Meeting a report of the discussion upon papers read at the previous Meeting, so that members may have the advantage of reading the discussions, as well as the papers themselves, in advance proof form.

The Council reserve the right to print in the volumes of *Transactions* only such papers as, in their opinion, are of general and permanent interest; but in cases where papers are not printed in full, a reference (or, where necessary, a brief abstract) will be inserted in the *Transactions*. Members are therefore advised to file their proof copies of papers, &c., for future reference.

C. McDERMID,

Secretary.

SALISBURY HOUSE,

LONDON, E.C.

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OF
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1905-1906.

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C. McDERMID, Salisbury House, E.C.

FIFTEENTH SESSION, October, 1905—May, 1906.**DATES OF MEETINGS.**

Thursday, October 19th, 1905.

„ November 16th, 1905.

„ December 21st, 1905.

„ January 18th, 1906.

„ February 15th, 1906.

„ March 15th, 1906 (Annual Meeting).

„ April 19th, 1906.

„ May 17th, 1906.

MOVEMENTS OF MEMBERS.

Messrs. Frederick Blamey, Francis W. Smith, Assoc. R.S.M., and Arthur Blamey, Student Inst. M.M., leave London on June 15th for Egypt in the service of The Egyptian Mines Exploration Company.

Mr. Anthony Southee, Assoc. Inst. M.M., has been appointed Manager of the Djebel Charra Mines, par Béja, Tunis.

Mr. G. A. Wagner, Assoc. Inst. M.M., has vacated the position of Superintendent to the Caylloma Silver Mining Co., Ltd., and has been appointed General Manager of the Colquipocro Mines on the Cordillera Negra, in the interior of Peru.

TRANSACTIONS.

A Personal and General Index to the Contents of Vols. I—XIII (inclusive) of the *Transactions* is issued with this *Bulletin*.

Volume XIII is now in course of being issued to members whose subscriptions have been paid.

Back Volumes may be obtained by members at 10s. 6d. per vol. in paper cover, or 14s. 6d. per vol. in uniform half morocco binding. The price to non-members is 1l. 1s. per vol., and in some cases 1l. 11s. 6d.

"Some Experiments on Ore Sampling."

Professor HENRY LOUIS writes:—"In connection with Mr. French's paper on Ore Sampling (Bulletin No. 8, p. 9), it may be of use to draw attention to a very convenient method of sampling either in the field or in the laboratory, which appears to be very little known in this country; I first saw it in use in Sweden and have used it myself a good deal with perfectly satisfactory results. The appliances consist of three troughs, V-shaped in cross section and open at both ends, the angle at the apex being 90°. Dimensions depend upon the material being treated; for field work and large parcels broken say to 1½ in. ring, troughs made of pieces of 10 in. board, 4 ft. long, held together by a few nails, answer admirably. For laboratory work I use pieces of stout sheet zinc or tin-plate, 12 in. long and 6 in. wide, bent up lengthways, so that each side is 3 in. broad. To use this appliance, one of the V-shaped troughs is placed horizontally, apex upwards, on two sheets of American cloth or canvas, or over two boxes; another trough is placed, apex downwards, over the first one, inclining towards it at an angle of 30° or 40°, the lower end resting on the centre of the apex of the lower one; the third trough is placed above the second in zig-zag fashion, and similarly inclined, its lower end delivering material at the top end of the second trough. Thus, any material poured down the top trough runs fairly into the second, and then falling on to the apex or edge of the first, is divided into two equal parcels. The operation is very rapid, and may be repeated as often as is required, until the sample is reduced to the requisite size. The appliances are simple in the extreme, may be improvised almost anywhere, and if the troughs are made of two hinged pieces, are very portable. The few tests that I have made have shown that this simple method seems to be as accurate as any other, but it would be very desirable that Mr. French should include this device also amongst his tests. In any case he, as well as other members, may be glad to know of this simple sampling device."

"Sieve and Screen Apertures."

Professor HENRY LOUIS writes:—"With regard to the paper on Sieve and Screen Apertures (Bulletin No. 5, p. 14), I should like to draw attention to tables of Sheet Screens and Woven Wire Screens, published by myself in 1893, and compiled from actual micrometric measurements of large numbers of screens. These tables give, in addition to the width of the aperture, the area of the aperture, and the total aperture area per sq. ft. of screening surface; they are to be found in my Handbook of Gold Milling, Third Edition, pp. 139 and 142. These data as to area are of great value to the millman, and I venture to suggest that they should on no account be omitted from any tables that the Institution may see fit to publish.

"Mr. Holloway does not state the whole facts of the case as regards coal screens; it is correct to say that a plate screen to screen to 1 in. is punched with 1 in. round holes, but there is a divergence of practice as regards wire screens; a 1-in. wire screen means either a screen with a clear space of 1-in. between the wires, or else a screen with wires 1 in. apart, centre to centre. There is evident liability to confusion unless a uniform principle be adopted here also."

NEW MEMBERS.

The following have been admitted to the Institution since May 11th, 1905:—

Members:—R. Hay Anderson, Mexico; J. Parke Channing, New York; Charles P. Durell, Colorado; Frank Klepetko, New York; James W. Malcolmson, Texas; J. Othon Mayen, Paris; B. Stanley Revett, Colorado; Edwin M. Rogers, New York; Edmund J. Spilsbury, New York; Thomas Trevaillé-Williams, Cornwall.

Associates:—Alexander G. Anderson, Rhodesia; William B. Bishop, London; J. Edwin Breakell, London; Tom Caplen, South India; William A. E. Coxon, Surbiton; George W. Gray, Dutch West Borneo; John H. Grey, Spain; James Hogg, Spain; Alfred J. Hopkins, Republica de Honduras; George H. Stanley, Transvaal; Henry M. White, Spain; Gerard W. Williams, Transvaal.

Students:—G. B. Adeney, Manchester; Lindsey Aspland, Camborne; Arthur Blamey, Redruth; E. Thomas Borlase, Glenridding; H. Martin Carr, Malvern; Fritz Chrambach, Spain; Robert H. Crozier, Tasmania; H. S. Gordon, London; Christopher G. James, Swansea; Garnet W. James, London; Frederick W. Kendall, Southport; R. Walter Partridge, Attleborough; Robert S. Reid, New South Wales; Bernard A. Rendle, Richmond; John J. Rogers, Dunmow; J. Richmond Russell, Western Australia; A. Herbert Smith, Glasgow; Adrian W. Wylie, London.

CANDIDATES FOR ADMISSION.

The following have applied for admission:—

John V. N. Dorr, South Dakota; J. Murdoch Eaton, Transvaal; F. S. Evans, London; John W. Gregory, Glasgow; Bertram Hunt, Central America; C. G. Huddleston, India; M. A. Ribeiro Lisboa, Brazil; Paul Ninnis, Spain; Richard Provis, London; H. M. Ridge, New South Wales; Robert C. Syson, Bearsden.

ADDRESSES LOST.

The Secretary will be glad to have the present addresses of the following gentlemen who have changed their abodes without notifying the fact to him.

Messrs. H. Wilmot Scott, A. S. Kirby and W. N. Williams.

EXTRACTS FROM BY-LAWS.

(Sections II. and IV.)

QUALIFICATIONS.

8. *Members.*—Every Candidate for admission into the class of Members, or for transfer into that class, shall come within one of the following conditions: He shall be not less than thirty years of age, and shall have been for at least five years in a responsible position with regard to, and shall be at the time of his candidature occupied in, practical Mining or Metallurgical work; or, he shall prove to the satisfaction of the Council that he is a fit and proper person, by reason of his attainments, to become a Member.

4. *Associates.*—Every Candidate for admission into the class of Associates shall be not less than twenty-five years of age, and shall at the time of his candidature be engaged in practical Mining or Metallurgical pursuits, and shall have been so engaged for a period of two years, if he shall have obtained the degree of Associate of a recognized School of Mines: and if not, for a period of not less than three years.

5. *Students* shall be persons not under 18 years of age, who intend to adopt the profession of a Mining Engineer or Metallurgist.

ENTRANCE FEES AND SUBSCRIPTIONS.

1. The Entrance Fee for Members shall be Three Guineas and for Associates Two Guineas, but each Associate on being transferred to Membership shall pay an additional sum of One Guinea.

2. Each Member shall pay an Annual Subscription of Two Guineas, but each Associate on being transferred to Membership shall pay an additional sum of Half-a-Guinea if his Subscription for that year as an Associate shall have been paid already.

3. Each Associate shall pay an Annual Subscription of One Guinea and a Half.

4. Each Student shall pay an Annual Subscription of One Guinea.

5. All Subscriptions shall become due on the first day of January in each year, and shall be payable in advance.

6. Any Member or Associate whose Subscription is not in arrear may compound for all future Subscriptions by the payment of Thirty Guineas.

NOTICE TO CONTRIBUTORS

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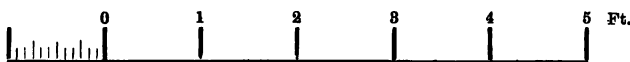
PAPERS and NOTES.

Authors of Papers and Notes are specially requested to send in all drawings and other illustrations in a state suitable for direct photographic reproduction. As far as possible illustrations will be inserted in the text.

The figures should be drawn, in Indian Ink, on a smooth white surface, on a scale sufficiently large to allow of reduction to about two-thirds of the original size.

Where numerous illustrations are submitted, authors should indicate those considered essential to a clear understanding of their papers.

It is desirable that a scale should be inserted, thus:—



and it is an advantage to have in addition a corresponding metric scale.

All contributions should be clearly written (or, wherever possible, typewritten) on one side of the paper only, and particular care should be taken in regard to foreign or local words or terms.

It is understood that all papers submitted to the Institution are original communications unless distinctly stated to be otherwise, in which case exact reference should be made to the previous publication.

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